

**DERWENT- 2000-543398**

**ACC-NO:**

**DERWENT- 200282**

**WEEK:**

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**TITLE: Granulation and comminution of liquid slag, e.g. from a blast furnace or a coal-fired power station, comprises slag ejection into a cooling reactor using hot combustion gases**

**INVENTOR: EDLINGER, A**

**PATENT-ASSIGNEE: HOLDERBANK FINANCIERE GLARUS AG[HOLDN]**

**PRIORITY-DATA: 1999AT-0000060 (January 28, 1999)**

**PATENT-FAMILY:**

<b>PUB-NO</b>	<b>PUB-DATE</b>	<b>LANGUAGE</b>	<b>PAGES</b>	<b>MAIN-IPC</b>
<b>MX 2000009504 A1</b>	<b>December 1, 2001</b>	<b>N/A</b>	<b>000</b>	<b>C21B 003/06</b>
<b>WO 200044942 A1</b>	<b>August 3, 2000</b>	<b>G</b>	<b>015</b>	<b>C21B 003/06</b>
<b>EP 1068363 A1</b>	<b>January 17, 2001</b>	<b>G</b>	<b>000</b>	<b>C21B 003/06</b>

**DESIGNATED- STATES:** **MX US ZA AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE**

**APPLICATION-DATA:**

<b>PUB-NO</b>	<b>APPL- DESCRIPTOR</b>	<b>APPL-NO</b>	<b>APPL-DATE</b>
<b>MX2000009504A1</b>	<b>N/A</b>	<b>2000MX-0009504</b>	<b>September 28, 2000</b>
<b>WO 200044942A1</b>	<b>N/A</b>	<b>2000WO-AT00007</b>	<b>January 13, 2000</b>
<b>EP 1068363A1</b>	<b>N/A</b>	<b>2000EP-0900447</b>	<b>January 13, 2000</b>
<b>EP 1068363A1</b>	<b>N/A</b>	<b>2000WO-AT00007</b>	<b>January 13, 2000</b>

**EP 1068363A1      Based on**

**WO 200044942      N/A**

**INT-CL (IPC): C21B003/06**

**ABSTRACTED-PUB-NO: WO 200044942A**

**BASIC-ABSTRACT:**

**NOVELTY - Liquid slag granulation and comminution, comprises slag ejection into a cooling reactor using hot combustion gases.**

**DETAILED DESCRIPTION - A liquid slag granulation and comminution process comprises ejecting a slag stream with hot combustion gases, especially from complete combustion, into a cooling reactor where it is cooled with addition of hydrocarbons.**

**An INDEPENDENT CLAIM is also included for equipment for carrying out the above process, in which combustion gases from a burner (4) are directed onto the slag or exhaust gases from a combustion chamber or an internal combustion engine, especially a turbine combustion chamber, are directed onto the slag or through a tundish lance (7).**

**USE - For granulation and comminution of liquid slags e.g., from blast furnaces and coal-fired thermal power stations.**

**ADVANTAGE - The process completely eliminates the use of water or steam for slag cooling so that steam formation is avoided during combustion, allows relatively simple process control to ensure reproducible process conditions independently of the slag type and maintains a high temperature in the slag tundish to prevent slag freezing in and blockage of the outlet opening.**

**DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of equipment for carrying out the process.**

**Tundish 1**

**Burner 4**

**Tundish outlet 5**

**Cooling reactor 6**

**Lance 7**

**Hydrocarbon injection nozzles 9**

**CHOSEN- Dwg.1/1**

**DRAWING:**

**TITLE- GRANULE COMMINUTE LIQUID SLAG BLAST FURNACE COAL**  
**TERMS: FIRE POWER STATION COMPRISE SLAG EJECT COOLING**  
**REACTOR HOT COMBUST GAS**

**DERWENT-CLASS: L02 M24**

**CPI-CODES: L02-C03; M24-A07B;**

**SECONDARY-ACC-NO:**

**CPI Secondary Accession Numbers: C2000-161672**